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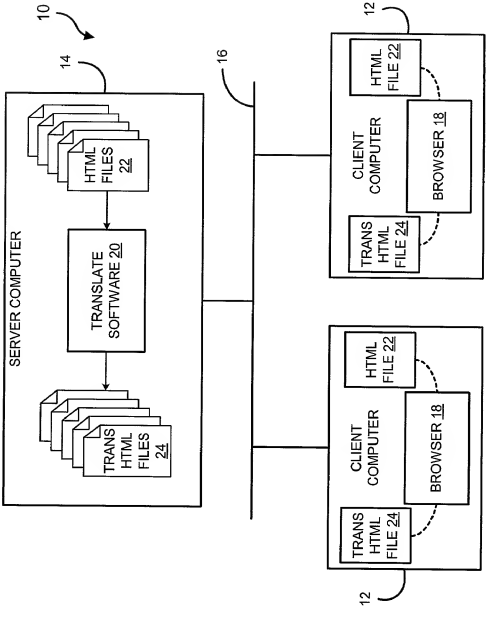
10
14
SERVER COMPUTER
HTML FILES 22
TRANSLATE SOFTWARE 20
TRANS HTML FILES 24
16
12
CLIENT COMPUTER
HTML FILE 22
BROWSER 18
TRANS HTML FILE 24
12
CLIENT COMPUTER
HTML FILE 22
BROWSER 18
TRANS HTML FILE 24

FIG. 1

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40

```
#Initialize the HtmlCode variable
HtmlCode = ""

#Read a character from the original HTML
Read Char

#Loop through all of HTML and convert the text characters
While not EOF do
  # Comment : Initialize the strings
  ConvertStr = " "
  VAL = ""

  # Comment : Simply move html tags to html code variable
  If Char = "<"
    Read Char until Char = ">"
    HtmlCode = HtmlCode + Char
  End if

  # Comment : All chars until tag starts are placed in variable
  Read Char
  While not Char = "<"
    ConvertStr = ConvertStr + Char
    Read Char
  loop

If CONVERTSTR ! = " "
  # Comment : Convert parsed text characters
  VAL = Run function to translate ConvertStr into specified language

  # Comment : Add parsed text to the html code
  HtmlCode = HtmlCode + VAL
End if
Loop
```

FIG. 2

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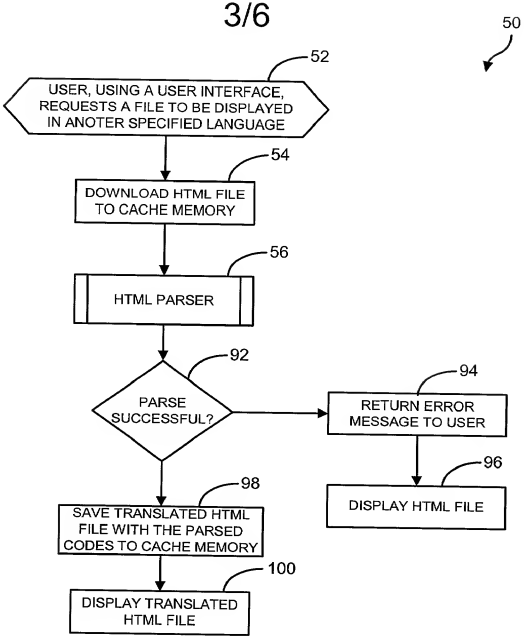
50
52
USER, USING A USER INTERFACE, REQUESTS A FILE TO BE DISPLAYED IN ANOTER SPECIFIED LANGUAGE
54
DOWNLOAD HTML FILE TO CACHE MEMORY
56
HTML PARSER
92
PARSE SUCCESSFUL?
94
RETURN ERROR MESSAGE TO USER
96
DISPLAY HTML FILE
98
SAVE TRANSLATED HTML FILE WITH THE PARSED CODES TO CACHE MEMORY
100
DISPLAY TRANSLATED HTML FILE

FIG. 3

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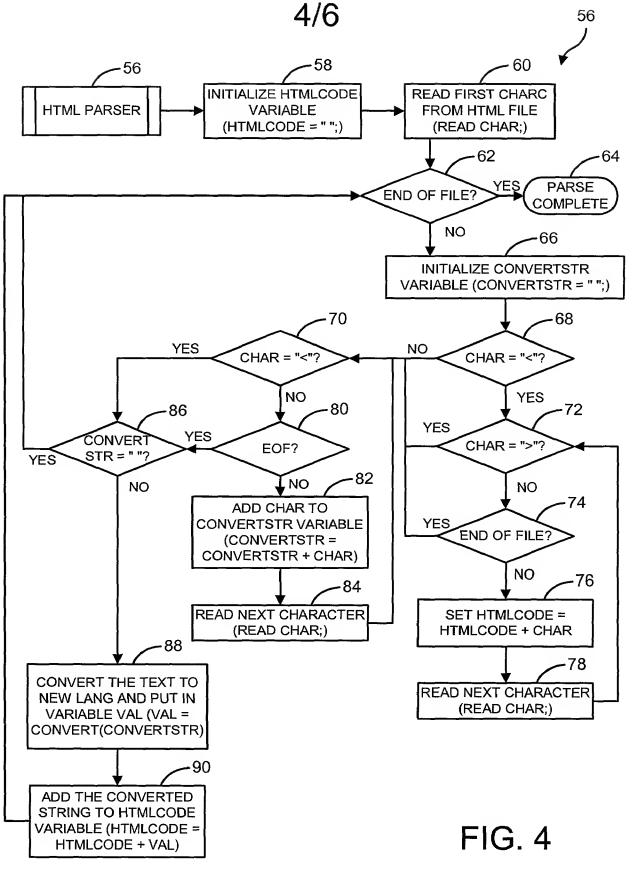
56
HTML PARSER
58
INITIALIZE HTMLCODE VARIABLE (HTMLCODE = " ";)
60
READ FIRST CHARC FROM HTML FILE (READ CHAR;)
62
END OF FILE?
YES
64
PARSE COMPLETE
NO
66
INITIALIZE CONVERTSTR VARIABLE (CONVERTSTR = " ";)
68
CHAR = "<"?
NO
YES
70
CHAR = "<"?
YES
NO
72
CHAR = ">"?
YES
NO
74
END OF FILE?
YES
NO
76
SET HTMLCODE = HTMLCODE + CHAR
78
READ NEXT CHARACTER (READ CHAR;)
80
EOF?
YES
NO
82
ADD CHAR TO CONVERTSTR VARIABLE (CONVERTSTR = CONVERTSTR + CHAR)
84
READ NEXT CHARACTER (READ CHAR;)
86
CONVERT STR = " "?
YES
NO
88
CONVERT THE TEXT TO NEW LANG AND PUT IN VARIABLE VAL (VAL = CONVERT(CONVERTSTR)
90
ADD THE CONVERTED STRING TO HTMLCODE VARIABLE (HTMLCODE = HTMLCODE + VAL)

FIG. 4

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```
<HTML>
        <HEAD>
        <TITLE>
        THIS IS TEST HTML
        </TITLE>
        </HEAD>
        <BODY>
        Hello World!
        </BODY>
</HTML>
```

FIG. 5

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HTML FILE
THIS IS TEST HTML - MICROSOFT INTERNET EXPLORER
FILE EDIT VIEW FAVORITES TOOLS HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://WWW.HP.COM/TEST.HTML
Hello World!
TRANSLATED HTML FILE
THIS IS TEST HTML - MICROSOFT INTERNET EXPLORER
FILE EDIT VIEW FAVORITES TOOLS HELP
BACK FORWARD STOP REFRESH HOME SEARCH FAVORITES HISTORY
ADDRESS HTTP://WWW.HP.COM/TEST.HTML
Bonjour Monde!

FIG. 6